

REMARKS

Claims 3-10 are pending in this application. Claim 2 has been canceled herein without prejudice or disclaimer. Claims 3-6 have been amended herein. Claims 7-10 have been indicated as in condition for allowance.

The specification has been amended to correct typographical errors in Tables 1 and 2. These amendments may be seen to be supported by the specification on page 50, lines 18-21.

Claims 3-6 are rejected under 35 U.S.C. 112, second paragraph, as indefinite.

The rejection is overcome by the amendment to claim 3. As suggested by the Examiner, claim 3 has been amended for clarity to recite "an amino aminoalkyl group-containing silane compound (e)."

Claims 2 and 4-6 are rejected under 35 U.S.C. 102(b) as anticipated by Hirose et al. (U.S. Pat. No. 4,965,311).

The rejection is overcome by the amendments to claims 2 and 4-6. Claim 2 has been canceled without prejudice or disclaimer and claims 4-6 have been amended to no longer depend from claim 2.

Claims 2 and 4-6 are rejected under 35 U.S.C. 102(b) as anticipated by Yukimoto et al. (U.S. Pat. No. 5,063,270).

The rejection is overcome by the amendments to claims 2 and 4-6. Claim 2 has been canceled without prejudice or disclaimer and claims 4-6 have been amended to no longer depend from claim 2.

Amendment under 37 CFR 1.111
Hiroshi ANDO et al.

U.S. Patent Application Serial No. 09/701,011
Attorney Docket No. 001550

Claims 2 and 4-6 are rejected under 35 U.S.C. 102(e) as anticipated by Kalinowski et al. (U.S. Pat. No. 6,130,306).

The rejection is overcome by the amendments to claims 2 and 4-6. Claim 2 has been canceled without prejudice or disclaimer and claims 4-6 have been amended to no longer depend from claim 2.

Regarding allowable subject matter.

The Examiner has indicated that claim 3 would be allowable if rewritten to overcome the rejection under 35 U.S.C. 112, second paragraph and to include the limitations of the base claim and any intervening claims. Applicants have amended claim 3 herein to overcome the rejection under 35 U.S.C. 112, second paragraph, and claim 3 had been rewritten to be in independent form in the amendment of July 1, 2002.

Applicants have amended claims 4-6 herein to depend only from claim 3. Applicants therefore submit that claims 3-6 are allowable.

As the Examiner has indicated that claims 7-10 are allowed, applicants submit that the application is in condition for allowance.

If, for any reason, it is felt that this application is not now in condition for allowance, the Examiner is requested to contact Applicants undersigned agent at the telephone number indicated below to arrange for an interview to expedite the disposition of this case.

Attached hereto is a marked-up version of the changes made by the current amendment. The attached page is captioned "Version with markings to show changes made."

Amendment under 37 CFR 1.111
Hiroshi ANDO et al.

U.S. Patent Application Serial No. 09/701,011
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In the event that this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. Please charge any fees for such an extension of time and any other fees which may be due with respect to this paper, to Deposit Account No. 01-2340.

Respectfully submitted,

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PATENT TRADEMARK OFFICE

Enclosures: Version with markings to show changes made

Q: FLOATERS DAG 001550.draft amend prepared by plb

Amendment under 37 CFR 1.111
Hiroshi ANDO et al.

U.S. Patent Application Serial No. 09/701,011
Attorney Docket No. 001550

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Please amend Table 1 on pages 51-52 as follows:



Amendment under 37 CFR 1.111
Hiroshi ANDO et al.

U.S. Patent Application Serial No. 09/701,011
Attorney Docket No. 001550

Table 1

		Inventive Example					
		1	2	3	4	5	6
Curing agent (solution B)							
Bivalent tin catalyst	Tin octylate	3	3	3	3	3	3
	Laurylamine	0.3	0.3	0.3	0.3	0.3	0.3
Tetravalent tin catalyst	Dibutyltin dilaurate						
Amino-containing silane compound	N-(β -aminoethyl)- γ -aminopropyltrimethoxysilane	2	2	2	2	2	2
Dehydrating agent	Vinyltrimethoxysilane	0.2	0.2	0.2	0.2	0.2	0.2
Plasticizer	Polypropylene glycol (average molecular weight = 3,000)	6.5				6.5	
	Paraffin based plasticizer (Exxsol D-130)		6.5			6.5	
	Polyoxyalkylene having reactive silicon group in the molecule			6.5			
	Allyl ether group-terminus polyoxyalkylene				6.5		
	Diisodecyl phthalate						
Filler	Precipitated calcium carbonate	20	20	20	20	20	20
Base resin (solution A)							
Curable organic based polymer (d)	Polyoxyalkylene having reactive silicon group in the molecule	100	100	93.5	100	100	100
Epoxy-containing silane compound	Polyisobutylene having reactive silicon group in the molecule						
	γ -Glycidoxypropyltrimethoxysilane	2	2	2	2	2	2
Epoxy resin	Bisphenol A-epichlorohydrin type epoxy resin	1	1	1	1	1	1

(Continued)

		Inventive Example					
		1	2	3	4	5	6
Weight ratio *	Weight ratio (base resin:curing agent)	100:10	100:10	100:10	100:10	100:10	100:10
**	Easiness for weighing and mixing	+	+	+	+	+	+
Storage stability (surface curing time)	Initial (Before 50°C x 4 weeks store)	Hr	6	6	6	6	6
	After 50°C x 5-weeks-store 4 weeks store	Hr	6	6	6	6	6
Adhesiveness after storage of curing agent (water resistance)	Substrate: plate glass	break mode	++	++	++	++	++
	Substrate: aluminum alloy (anodic oxidation)	break mode	++	++	++	++	++
	Substrate: mortar slabs	break mode	+	+	++	+	+
Elastic Recovery	23°C, 100% elongation 24 hr. set, 1 hr after release	% ***	94%	95%	94%	94%	95%

* : Base resin/curing agent mixing ratio

** : Base resin/curing agent mixing ability

*** : Elastic recovery ratio

FIGURE 11

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Please amend Table 2, pages 58-59 as follows:

Table 2

		Comparative Example						
		1	2	3	4	5	6	7
Bivalent tin catalyst	Curing agent (solution B)							
	Tin octylate	3	3	5	5	5	5	5
	Laurylamine	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Tetravalent tin catalyst	Dibutyltin dilaurate					5		
Amino-containing silane compound	N-(β-aminoethyl)-γ-aminopropyltrimethoxysilane	2	2	2	2	2	2	2
Dehydrating agent	Vinyltrimethoxysilane	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Plasticizer	Polypropylene glycol (average molecular weight = 3,000)	6.5				6.5	6.5	6.5
	Paraffin based plasticizer (Exxsol D-130)							
	Polyoxyalkylene having reactive silicon group in the molecule							
	Allyl ether group terminus polyoxyalkylene							
	Diisodecyl phthalate	6.5						
Filler	Precipitated calcium carbonate	20	20	20	20	20	20	20
	Base resin (solution A)							
Curable organic based polymer (d)	Polyoxyalkylene having reactive silicon group in the molecule	100	100	100	100	100	100	100
	Polyisobutylene having reactive silicon group in the molecule							
Epoxy-containing silane compound	γ-Glycidoxypolytrimethoxysilane	2	2	2	2	2	2	2
Epoxy resin	Bisphenol A-epichlorohydrin type epoxy resin	1	1	1	1	1	1	1

Continued (Continued)

		Comparative Example						
		1	2	3	4	5	6	7
Mixing ratio *	Weight ratio (base resin:curing agent)	100:10	100:10	100:2.5	100:8	100:10	100:10	100:10
Mixing ability **	Easiness for weighing and mixing	+	+	+	-	+	+	+
Storage stability (surface curing time)	Initial (Before 50 C x 4 week store) Hr	5	6	6	N. M.	5	6	6
	After 50°C x 4 weeks store Hr	30	6	6	N. M.	5	6	6
Adhesiveness after storage of curing agent (water resistance)	Substrate: plate glass	break mode	+	-	N. M.	++	+	+
	Substrate: aluminum alloy (anodic oxidation)	break mode	+	-	N. M.	++	+	+
	Substrate: mortar slabs	break mode	-	-	N. M.	+	-	-
Elastic Recovery	23°C, 100% elongation 24 hr. set, 1 hr after release	% ***	95%	95%	85%	N. M.	55%	95%

* : Base resin/curing agent mixing ratio

** : Base resin/curing agent mixing ability

*** : Elastic recovery ratio

N. D. : not detectable, N. M. : not measurable

IN THE CLAIMS:

Please amend claims 3-6 as follows:

3. (Three Times Amended) A curing agent composition which comprises a hydrolyzable silyl group-containing compound (a), a non-phthalic acid ester based plasticizer (b) having no phthalic acid ester structure in its molecule, and a bivalent tin based curing catalyst (c), wherein at least one species of the hydrolyzable silyl group-containing compound (a) is an amino aminoalkyl group-containing silane compound (e).

4. (Three Times Amended) The curing agent composition according to claim 2 or 3, wherein the non-phthalic acid ester based plasticizer (b) is at least one compound selected from the group consisting of aliphatic dibasic acid esters, glycol esters, aliphatic esters, phosphoric acid esters, epoxy plasticizers, ester based plasticizers, polyether based plasticizers, polystyrenes, hydrocarbon based plasticizers, butadiene-acrylonitrile copolymers and chlorinated paraffins.

5. (Three Times Amended) The curing agent composition according to claim 2 or 3, wherein the non-phthalic acid ester based plasticizer (b) is at least one compound selected from the group consisting of polyether based plasticizers and hydrocarbon based plasticizers.

6. (Twice Amended) The curing agent composition according to claim 2 or 3, wherein the bivalent tin based curing catalyst (c) is at least one species selected from the group consisting of tin octylate, tin naphthenate, tin stearate and tin Versatate.